

## ABSTRACT:

The integrated circuit (10) has a substrate and a memory with a first memory unit (30) containing organic material. The first memory unit (30) has a first (26) and a second electrode (28), which are in the non-programmed state electrically connected by an interconnection (27). On programming, the interconnection (27) is at least partially broken in  
5 that it is locally heated. This heating can be effected electrically and optically. By preference the first memory unit (30) is integrated in a first layer (6) of organic material, which also has a first electrode (25) of the integrated circuit (10). The integrated circuit (10) can be used in a transponder which is electrically programmable. In the method of programming, the local heating is effected electrically, by applying a voltage across the first memory unit (30).

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Fig. 1